## What is Claimed is:

1	1. A computer-implemented method for reconciling a first transaction in
2	a first list with a combination of at least two transactions in a second list, each
3	transaction having a value, the method comprising:
4	obtaining the first transaction;
5	obtaining the second list of transactions;
6	determining whether the value of the first transaction corresponds to a
7	combination of the values of a subset of transactions in the
8	second list; and
9	responsive to the value corresponding to the combination of values,
10	indicating a match between the first transaction and the subset
11	of transactions.
1	2. The method of claim 1, wherein each transaction comprises one
2	selected from the group consisting of an investment transaction, a financial
3	transaction, and an accounting transaction.

- 3. The method of claim 1, wherein determining whether the value of the first transaction corresponds to a combination of the values of a subset of
- 3 transactions in the second list comprises determining whether the value of the
- 4 first transaction corresponds to a sum of the values of a subset of transactions in
- 5 the second list.

1	4. The method of claim 1, wherein at least one of the steps of obtaining

- the first transaction and obtaining the second list comprises downloading
- 3 transactions from a remote server.
- 5. The method of claim 1, wherein at least one of the steps of obtaining
- 2 the first list and obtaining the second list comprises retrieving transactions from
- 3 a storage device.
- 6. The method of claim 1, further comprising:
- determining whether the value of the first transaction corresponds to a
- 3 value of a transaction in the second list; and
- 4 responsive to the value of the first transaction corresponding to the value
- of a transaction in the second list, indicating a match between
- 6 the first transaction and the transaction having the
- 7 corresponding value;
- and wherein the step of determining whether the value of the first
- 9 transaction corresponds to a combination of the values of a subset of
- transactions in the second list is performed responsive to the value of the first
- transaction not corresponding to the value of a transaction in the second list.

5

6

7

1	7. The method of claim 1, wherein each transaction has a date, and
2	wherein obtaining the second list comprises obtaining a list of transactions
3	having dates identical to the date of the first transaction.

- 8. The method of claim 1, wherein each transaction has a date, and wherein obtaining the second list comprises obtaining a list of transactions having dates within a specified time period of the date of the first transaction.
- 9. The method of claim 8, further comprising, responsive to the value of
  the first transaction not corresponding to a combination of the values of a subset
  of transactions in the second list:
  - repeating the steps of obtaining the second list, determining whether the

    value of the first transaction corresponds to a combination of

    the values of a subset of transactions in the second list, and,

    responsive to the value corresponding to the combination of

    values, indicating a match between the first transaction and the

    subset of transactions.
- 1 10. The method of claim 1, wherein determining whether the value of the 2 first transaction corresponds to a combination of the values of a subset of 3 transactions in the second list comprises performing a recursive submethod

2

7

8

9

10

11

1

2

- using a first input parameter including the value of the first transaction and a 4
- second input parameter including the set of transactions in the second list. 5
  - 11. The method of claim 10, wherein performing the recursive submethod comprises:
- responsive to one of the values of a transaction in the second input 3 parameter equaling the first input parameter, returning a 4 5 transaction list including the transaction having the equal value; 6
  - responsive to none of the values of transactions in the second input parameter equaling the first input parameter, and the second parameter containing only one transaction, returning an indicator that no match was found;

responsive to none of the values of transactions in the second input 12 parameter equaling the first input parameter, and the second 13 parameter containing more than one transaction, performing 14 the recursive submethod using a modified first input 15 parameter and a modified second input parameter, each 16 modified input parameter omitting a selected transaction.

12. The method of claim 10, wherein performing the recursive submethod comprises:

3	responsive to one of the values of a transaction in the second input
4	parameter equaling the first input parameter, returning a
5	transaction list including the transaction having the equal
6	value;
7	responsive to none of the values of transactions in the second input
8	parameter equaling the first input parameter, and the second
9	parameter containing only one transaction, returning an
10	indicator that no match was found;
11	responsive to none of the values of transactions in the second input
12	parameter equaling the first input parameter, and the second
13	parameter containing more than one transaction, performing
14	the steps of:
15	a) selecting a transaction in the second input parameter;
16	b) subtracting the value of the selected transaction from the
17	first input parameter to obtain a modified first input
18	parameter;
19	c) generating a modified set of transactions including all
20	transactions in the second input parameter except
21	the selected transaction;
22	d) performing the recursive submethod using a first input
23	parameter including the modified first input

24	parameter and a second input parameter including
25	the modified set of transactions;
26	e) responsive to the recursive submethod returning a
27	transaction list, adding the selected transaction to the
28	returned list to generate a modified transaction list,
29	and returning the modified transaction list;
30	f) responsive to the recursive submethod returning an indicator
31	that no match was found, performing the steps of:
32	responsive to any transactions remaining in the
33	second input parameter, repeating steps a)
34	through f); and
35	responsive to no transactions remaining in the
36	second input parameter, returning an
37	indicator that no match was found.
1	13. The method of claim 1, further comprising repeating the obtaining,

- determining, and indicating steps for a second transaction in the first list. 2
- 14. A computer-implemented method for reconciling a first combination 1 of at least two transactions in a first list with a second combination of at least 2 two transactions in a second list, each transaction having a value, the method 3 comprising: 4
- obtaining each transaction in the first combination; 5 - 25 -16319/04760/DOCS/1005328.1

6	combining the obtained transactions to generate a first value;
7	obtaining the second list of transactions;
8	determining whether the first value corresponds to a combination of the
9	values of a subset of transactions in the second list; and
10	responsive to the first value corresponding to the combination of values,
11	indicating a match between the first combination and the
12	subset of transactions.

- 15. A computer-implemented method for matching a first value with a combination of at least two values in a list of values, the method comprising:

  obtaining the first value;

  obtaining the second list of values;

  performing a submethod, using a first input parameter including the first value and a second input parameter including the second list of values, to determine whether the first value corresponds to a combination of values from the second list; and responsive to the first value corresponding to the combination of values, indicating a match for the first value.
- 16. The method of claim 15, wherein the submethod is recursive, and wherein performing the recursive submethod comprises:

3	responsive to one of the values in the second input parameter equaling
4	the first input parameter, returning a value list including the
5	equal value;
6	responsive to none of the values in the second input parameter equaling
7	the first input parameter, and the second parameter containing
8	only one value, returning an indicator that no match was
9	found;
10	responsive to none of the values in the second input parameter equaling
11	the first input parameter, and the second parameter containing
12	more than one value, performing the recursive submethod
13	using a modified first input parameter and a modified second
14	input parameter, each modified input parameter omitting a
15	selected value.
1	17. The method of claim 15, wherein the submethod is recursive, and
2	wherein performing the recursive submethod comprises:
3	responsive to one of the values in the second input parameter equaling
4	the first input parameter, returning a value list including the
5	equal value;
6	responsive to none of the values in the second input parameter equaling
7	the first input parameter, and the second parameter containing

o	only one value, returning an indicator that no match was
9	found;
10	responsive to none of the values in the second input parameter equaling
11	the first input parameter, and the second parameter containing
12	more than one value, performing the steps of:
13	a) selecting a value in the second input parameter;
14	b) subtracting the selected value from the first input parameter
15	to obtain a modified first input parameter;
16	c) generating a modified value list including all values in the
17	second input parameter except the selected value;
18	d) performing the recursive submethod using a first input
19	parameter including the modified first input
20	parameter and a second input parameter including
21	the modified value list;
22	e) responsive to the recursive submethod returning a value list,
23	adding the selected value to the returned list to
24	generate a modified value list, and returning the
25	modified value list;
26	f) responsive to the recursive submethod returning an indicator
27	that no match was found, performing the steps of:

28	responsive to any values remaining in the second
29	input parameter, repeating steps a)
30	through f); and
31	responsive to no values remaining in the second
32	input parameter, returning an indicator
33	that no match was found.
1	18. The method of claim 15, wherein each value is associated with a transaction.
1	19. The method of claim 15, wherein the submethod determines whether the first value corresponds to a combination of values from the second list.
1	20. A computer-implemented method for matching a first combination of
2	at least two values with a second combination of at least two values in a list of
3	values, the method comprising:
4	obtaining each value in the first combination;
5	combining the obtained values to generate a first combined value;
6	obtaining the second list of values;
7	performing a recursive submethod, using a first input parameter
8	including the first combined value and a second input

parameter including the second list of values, to determine

.9

10	whether the first combined value corresponds to a second
11	combination of values from the second list; and
12	responsive to the first combined value corresponding to the second
13	combination of values, indicating a match for each value in the
14	first combination.

1	21. A computer program product comprising a computer-usable medium
2	having computer-readable code embodied therein for reconciling a first
3	transaction in a first list with a combination of at least two transactions in a
4	second list, each transaction having a value, comprising:
5	computer-readable program code devices configured to cause a computer
6	to obtain the first transaction;
7	computer-readable program code devices configured to cause a computer
8	to obtain the second list of transactions;
9	computer-readable program code devices configured to cause a computer
10	to determine whether the value of the first transaction
11	corresponds to a combination of the values of a subset of
12	transactions in the second list; and
13	computer-readable program code devices configured to cause a computer
14	to, responsive to the value corresponding to the combination of
15	values, indicate a match between the first transaction and the
16	subset of transactions

2

3

4

- 22. The computer program product of claim 21, wherein each transaction comprises one selected from the group consisting of an investment transaction, a financial transaction, and an accounting transaction.
- 23. The computer program product of claim 21, wherein the computerreadable program code devices configured to cause a computer to determine
  whether the value of the first transaction corresponds to a combination of the
  values of a subset of transactions in the second list comprise computer-readable
  program code devices configured to cause a computer to determine whether the
  value of the first transaction corresponds to a sum of the values of a subset of
  transactions in the second list.
  - 24. The computer program product of claim 21, wherein at least one of the computer-readable program code devices configured to cause a computer to obtain the first transaction and the computer-readable program code devices configured to cause a computer to obtain the second list comprises computer-readable program code devices configured to cause a computer to download transactions from a remote server.
- 25. The computer program product of claim 21, wherein at least one of the computer-readable program code devices configured to cause a computer to obtain the first transaction and the computer-readable program code devices

11

12

13

14

- 4 configured to cause a computer to obtain the second list comprises computer-
- 5 readable program code devices configured to cause a computer to retrieve
- 6 transactions from a storage device.
- 1 26. The computer program product of claim 21, further comprising: 2 computer-readable program code devices configured to cause a com-3 puter to determine whether the value of the first transaction corresponds to a value of a transaction in the second list; and 4 computer-readable program code devices configured to cause a computer 5 6 to, responsive to the value of the first transaction 7 corresponding to the value of a transaction in the second list, indicate a match between the first transaction and the 8 9 transaction having the corresponding value;

and wherein the computer-readable program code devices configured to cause a computer to determine whether the value of the first transaction corresponds to a combination of the values of a subset of transactions in the second list are configured to operate responsive to the value of the first transaction not corresponding to the value of a transaction in the second list.

- 27. The computer program product of claim 21, wherein each transaction
- 2 has a date, and wherein the computer-readable program code devices
- 3 configured to cause a computer to obtain the second list comprise computer-

4	readable program code devices configured to cause a computer to obtain a list
5	of transactions having dates identical to the date of the first transaction

1	28. The computer program product of claim 21, wherein each transaction
2	has a date, and wherein the computer-readable program code devices
3	configured to cause a computer to obtain the second list comprise computer-
4	readable program code devices configured to cause a computer to obtain a list
5	of transactions having dates within a specified time period of the date of the first
6	transaction.

29. The computer program product of claim 28, further comprising
computer-readable program code devices configured to cause a computer to,
responsive to the value of the first transaction not corresponding to a
combination of the values of a subset of transactions in the second list:
modify the specified time period; and
repeat the steps of obtaining the second list, determine whether the value
of the first transaction corresponds to a combination of the
values of a subset of transactions in the second list, and,
responsive to the value corresponding to the combination of
values, indicate a match between the first transaction and the

subset of transactions.

1	30. The computer program product of claim 21, wherein the computer-
2	readable program code devices configured to cause a computer to determine
3	whether the value of the first transaction corresponds to a combination of the
4	values of a subset of transactions in the second list comprise computer-readable
5	program code devices configured to cause a computer to perform a recursive
6	submethod using a first input parameter including the value of the first
7	transaction and a second input parameter including the set of transactions in the
8	second list.
1	31 The computer program product of claim 30 wherein the computer-

31. The computer program product of claim 30, wherein the computer-readable program code devices configured to cause a computer to perform the recursive submethod comprise computer-readable program code devices configured to cause a computer to:

responsive to one of the values of a transaction in the second input

parameter equaling the first input parameter, return a

transaction list including the transaction having the equal

value;

responsive to none of the values of transactions in the second input

parameter equaling the first input parameter, and the second

parameter containing only one transaction, return an indicator
that no match was found;

2

3

13	responsive to none of the values of transactions in the second input
14	parameter equaling the first input parameter, and the second
15	parameter containing more than one transaction, perform the
16	recursive submethod using a modified first input parameter
17	and a modified second input parameter, each modified input
18	parameter omitting a selected transaction.

- 32. The computer program product of claim 30, wherein the computer-readable program code devices configured to cause a computer to perform the recursive submethod comprise computer-readable program code devices configured to cause a computer to:
- responsive to one of the values of a transaction in the second input

  parameter equaling the first input parameter, return a

  transaction list including the transaction having the equal

  value;
- responsive to none of the values of transactions in the second input

  parameter equaling the first input parameter, and the second

  parameter containing only one transaction, return an indicator

  that no match was found;
- responsive to none of the values of transactions in the second input

  parameter equaling the first input parameter, and the second

15	parameter containing more than one transaction, perform the
16	steps of:
17	a) selecting a transaction in the second input parameter;
18	b) subtracting the value of the selected transaction from the
19	first input parameter to obtain a modified first input
20	parameter;
21	c) generating a modified set of transactions including all
22	transactions in the second input parameter except
23	the selected transaction;
24	d) performing the recursive submethod using a first input
25	parameter including the modified first input
26	parameter and a second input parameter including
27	the modified set of transactions;
28	e) responsive to the recursive submethod returning a
29	transaction list, adding the selected transaction to the
30	returned list to generate a modified transaction list,
31	and returning the modified transaction list;
32	f) responsive to the recursive submethod returning an indicator
33	that no match was found, performing the steps of:
34	responsive to any transactions remaining in the
35	second input parameter, repeating steps a)
36	through f); and

38	second input parameter, returning an
39	indicator that no match was found.
1	33. A computer program product comprising a computer-usable medium
2	having computer-readable code embodied therein for reconciling a first
3	combination of at least two transactions in a first list with a second combination
4	of at least two transactions in a second list, each transaction having a value, the
5	computer program product comprising:
6	computer-readable program code devices configured to cause a computer
7	to obtain each transaction in the first combination;
8	computer-readable program code devices configured to cause a computer
9	to combine the obtained transactions to generate a first value;
10	computer-readable program code devices configured to cause a computer
11	to obtain the second list of transactions;
12	computer-readable program code devices configured to cause a computer
13	to determine whether the first value corresponds to a
14	combination of the values of a subset of transactions in the
15	second list; and
16	computer-readable program code devices configured to cause a computer
17	to, responsive to the first value corresponding to the

responsive to no transactions remaining in the

18	combination of values, indicate a match between the first
19	combination and the subset of transactions.
1	34. A computer program product comprising a computer-usable medium
2	having computer-readable code embodied therein for matching a first value
3	with a combination of at least two values in a list of values, the computer
4	program product comprising:
5	computer-readable program code devices configured to cause a computer
6	to obtain the first value;
7	computer-readable program code devices configured to cause a computer
8	to obtain the second list of values;
9	computer-readable program code devices configured to cause a computer
10	to perform a submethod, using a first input parameter
11	including the first value and a second input parameter
12	including the second list of values, to determine whether the
13	first value corresponds to a combination of values from the
14	second list; and
15	computer-readable program code devices configured to cause a computer
16	to, responsive to the first value corresponding to the
17	combination of values, indicate a match for the first value.
1	35. The computer program product of claim 34, wherein the submethod
2	is recursive, and wherein the computer-readable program code devices

3	configured to cause a computer to perform the recursive submethod comprise
4	computer-readable program code devices configured to cause a computer to:
5	responsive to one of the values in the second input parameter equaling
6	the first input parameter, return a value list including the equal
7	value;
8	responsive to none of the values in the second input parameter equaling
9	the first input parameter, and the second parameter containing
10	only one value, return an indicator that no match was found;
11	responsive to none of the values in the second input parameter equaling
12	the first input parameter, and the second parameter containing
13	more than one value, perform the recursive submethod using a
14	modified first input parameter and a modified second input
15	parameter, each modified input parameter omitting a selected
16	value.
1	36. The computer program product of claim 34, wherein the submethod
2	is recursive, and wherein the computer-readable program code devices
3	configured to cause a computer to perform the recursive submethod comprise
4	computer-readable program code devices configured to cause a computer to:
5	responsive to one of the values in the second input parameter equaling
6	the first input parameter, return a value list including the equal
7	value;

8	responsive to none of the values in the second input parameter equaling
9	the first input parameter, and the second parameter containing
10	only one value, return an indicator that no match was found;
11	responsive to none of the values in the second input parameter equaling
12	the first input parameter, and the second parameter containing
13	more than one value, perform the steps of:
14	a) selecting a value in the second input parameter;
15	b) subtracting the selected value from the first input parameter
16	to obtain a modified first input parameter;
17	c) generating a modified value list including all values in the
18	second input parameter except the selected value;
19	d) performing the recursive submethod using a first input
20	parameter including the modified first input
21	parameter and a second input parameter including
22	the modified value list;
23	e) responsive to the recursive submethod returning a value list,
24	adding the selected value to the returned list to
25	generate a modified value list, and returning the
26	modified value list;
27	f) responsive to the recursive submethod returning an indicator
28	that no match was found, performing the steps of:

29	responsive to any values remaining in the second
30	input parameter, repeating steps a)
31	through f); and
32	responsive to no values remaining in the second
33	input parameter, returning an indicator
34	that no match was found.
1	37. The computer program product of claim 34, wherein each value is
2	associated with a transaction.
1	38. The computer program product of claim 34, wherein the computer-
2	readable program code devices configured to cause a computer to perform the
3	submethod further comprise computer-readable program code devices
4	configured to cause a computer to determine whether the first value
5	corresponds to a combination of values from the second list.
1	39. A computer program product comprising a computer-usable medium
2	having computer-readable code embodied therein for matching a first
3	combination of at least two values with a second combination of at least two
4	values in a list of values, the computer program product comprising:
5	computer-readable program code devices configured to cause a computer
6	to obtain each value in the first combination:

7 computer-readable program code devices configured to cause a computer to combine the obtained values to generate a first combined value; 10 computer-readable program code devices configured to cause a computer to obtain the second list of values; 11 12 computer-readable program code devices configured to cause a computer 13 to perform a recursive submethod, using a first input parameter including the first combined value and a second 14 15 input parameter including the second list of values, to 16 determine whether the first combined value corresponds to a second combination of values from the second list; and 17 18. computer-readable program code devices configured to cause a computer 19 to, responsive to the first combined value corresponding to the second combination of values, indicate a match for each value 20 in the first combination. 21

- 40. A system for reconciling a first transaction in a first list with a
- 2 combination of at least two transactions in a second list, each transaction having
- 3 a value, the system comprising:
- a first input device, for obtaining the first transaction;
- 5 a second input device, for obtaining the second list of transactions;

6	coupled to the first and second input devices, a memory for storing the
7	first transaction and the second list;
8	coupled to the memory, a match determination module for determining
9	whether the value of the first transaction corresponds to a
10	combination of the values of a subset of transactions in the
11	second list; and
12	coupled to the match determination module, a match indication module
13	for, responsive to the value corresponding to the combination
14	of values, indicating a match between the first transaction and
15	the subset of transactions.
-	41. The content of claims 40 colores in a claim of the content of
1	41. The system of claim 40, wherein each transaction comprises one
2	selected from the group consisting of an investment transaction, a personal
3	financial transaction, and an accounting transaction.
1	42. The system of claim 40, wherein the match determination module
2	determines whether the value of the first transaction corresponds to a sum of
3	the values of a subset of transactions in the second list.
1	43. The system of claim 40, further comprising:

3

4

value of a transaction in the second list;

coupled to the memory, a transaction matching device, for determining

whether the value of the first transaction corresponds to a

5	wherein the match indication module, responsive to the value of the first
6	transaction corresponding to the value of a transaction in the second list,
7	indicates a match between the first transaction and the transaction having the

corresponding value;

and wherein the match determination module determines whether the value of the first transaction corresponds to a combination of the values of a subset of transactions in the second list responsive to the value of the first transaction not corresponding to the value of a transaction in the second list.

44. The system of claim 40, wherein each transaction has a date, and wherein the second input device obtains a list of transactions having dates identical to the date of the first transaction.

45. The system of claim 40, wherein each transaction has a date, and wherein the second input device obtains a list of transactions having dates within a specified time period of the date of the first transaction.

46. The system of claim 40, wherein the match determination module performs a recursive submethod using a first input parameter including the value of the first transaction and a second input parameter including the set of transactions in the second list.

47. The system of claim 46, wherein the recursive submethod comprises:

16319/04760/DOCS/1005328.1

- 44 - Case 4760

2	responsive to one of the values of a transaction in the second input
3	parameter equaling the first input parameter, returning a
4	transaction list including the transaction having the equal
5	value;
6	responsive to none of the values of transactions in the second input
7	parameter equaling the first input parameter, and the second
8	parameter containing only one transaction, returning an
9	indicator that no match was found;
10	responsive to none of the values of transactions in the second input
11	parameter equaling the first input parameter, and the second
12	parameter containing more than one transaction, performing
13	the recursive submethod using a modified first input
14	parameter and a modified second input parameter, each
15	modified input parameter omitting a selected transaction.
1	48. The system of claim 46, wherein the recursive submethod comprises:
2	responsive to one of the values of a transaction in the second input
3	parameter equaling the first input parameter, returning a
4	transaction list including the transaction having the equal
5	value;
6	responsive to none of the values of transactions in the second input
7	parameter equaling the first input parameter, and the second

8	parameter containing only one transaction, returning an
9	indicator that no match was found;
10	responsive to none of the values of transactions in the second input
11	parameter equaling the first input parameter, and the second
12	parameter containing more than one transaction, performing
13	the steps of:
14	a) selecting a transaction in the second input parameter;
15	b) subtracting the value of the selected transaction from the
16	first input parameter to obtain a modified first input
17	parameter;
18	c) generating a modified set of transactions including all
19	transactions in the second input parameter except
20	the selected transaction;
21	d) performing the recursive submethod using a first input
22	parameter including the modified first input
23	parameter and a second input parameter including
24	the modified set of transactions;
25	e) responsive to the recursive submethod returning a
26	transaction list, adding the selected transaction to the
27	returned list to generate a modified transaction list,
28	and returning the modified transaction list;

29	f) responsive to the recursive submethod returning an indicator
30	that no match was found, performing the steps of:
31	responsive to any transactions remaining in the
32	second input parameter, repeating steps a)
33	through f); and
34	responsive to no transactions remaining in the
35	second input parameter, returning an
36	indicator that no match was found.
1	40. A greatery for reconciling a first combination of at least true
1	49. A system for reconciling a first combination of at least two
2	transactions in a first list with a second combination of at least two transactions
3	in a second list, each transaction having a value, the system comprising:
4	a first input device, for obtaining each transaction in the first
5	combination;
6	coupled to the first input device, a combination module, for combining
7	the obtained transactions to generate a first value;
8	a second input device, for obtaining the second list of transactions;
9	coupled to the combination module and the second input devices, a
10	memory for storing the first value and the second list;
11	coupled to the memory, a match determination module for determining
12	whether the first value corresponds to a combination of the
13	values of a subset of transactions in the second list; and

14	coupled to the match determination module, a match indication module
15	for, responsive to the first value corresponding to the
16	combination of values, indicating a match between the first
17	combination and the subset of transactions.
1	50. A system for matching a first value with a combination of at least two
2	values in a list of values, the system comprising:
3	a first input device, for obtaining the first value;
4	a second input device, for obtaining the second list of values;
5	coupled to the input devices, a memory for storing the first value and the
6	second list;
7	coupled to the memory, a recursive function module, for performing a
8	recursive function, using a first input parameter including the
9	first value and a second input parameter including the second
10	list of values, to determine whether the first value corresponds
11	to a combination of values from the second list; and
12	coupled to the recursive function module, a match indicator for,
13	responsive to the first value corresponding to the combination
14	of values, indicating a match for the first value.
1	51. The system of claim 50, wherein the recursive function module:
2	responsive to one of the values of a transaction in the second input
3	parameter equaling the first input parameter, returns a

4	transaction list including the transaction having the equal
5	value;
6	responsive to none of the values of transactions in the second input
7	parameter equaling the first input parameter, and the second
8	parameter containing only one transaction, returns an indicator
9	that no match was found;
10	responsive to none of the values of transactions in the second input
11	parameter equaling the first input parameter, and the second
12	parameter containing more than one transaction, performs the
13	recursive submethod using a modified first input parameter
14	and a modified second input parameter, each modified input
15	parameter omitting a selected transaction.
	50 TI
1	52. The system of claim 50, wherein the recursive function module:
2	responsive to one of the values in the second input parameter equaling
3	the first input parameter, returns a value list including the
4	equal value;
5	responsive to none of the values in the second input parameter equaling
6	the first input parameter, and the second parameter containing
7	only one value returns an indicator that no match was found:

8	responsive to none of the values in the second input parameter equaling
9	the first input parameter, and the second parameter containing
10	more than one value, performs the steps of:
11	a) selecting a value in the second input parameter;
12	b) subtracting the selected value from the first input parameter
13	to obtain a modified first input parameter;
14	c) generating a modified value list including all values in the
15	second input parameter except the selected value;
16	d) performing the recursive submethod using a first input
17	parameter including the modified first input
18	parameter and a second input parameter including
19	the modified value list;
20	e) responsive to the recursive submethod returning a value list,
21	adding the selected value to the returned list to
22	generate a modified value list, and returning the
23	modified value list;
24	f) responsive to the recursive submethod returning an indicator
25	that no match was found, performing the steps of:
26	responsive to any values remaining in the second
27	input parameter, repeating steps a)
28	through f); and

29	responsive to no values remaining in the second
30	input parameter, returning an indicator
31	that no match was found.
1	53. The system of claim 50, wherein each value is associated with a
2	transaction.
1	54. A system for matching a first combination of at least two values with
2	a second combination of at least two values in a list of values, the system
3	comprising:
4	a first input device, for obtaining each value in the first combination;
5	coupled to the first input device, a combination module, for combining
6	the obtained values to generate a first combined value;
7	a second input device, for obtaining the second list of values;
8	coupled to the combination module and the second input devices, a
9	memory for storing the first value and the second list;
10	coupled to the memory, a recursive function module, for performing a
11	recursive function, using a first input parameter including the
12	first combined value and a second input parameter including
13	the second list of values, to determine whether the first
14	combined value corresponds to a second combination of values
15	from the second list; and

16	coupled to the recursive function module, a match indicator for,
17	responsive to the first combined value corresponding to the
18	second combination of values, indicating a match for each
19	value in the first combination.